

# SAFETY DATA SHEET

SDS No.1050-0027

Revised Date January 16, 2017

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## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : TENAX GR  
NAME OF MANUFACTURER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 1050-25000, 1050-25010, 1050-25020, 1050-25030  
SDS No. : 1050-0027  
Research use only.

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Skin corrosion/irritation : Category 2  
Eye damage/eye irritation : Category 2  
Specific target organ toxicity (Single exposure) : Category 3(respiratory irritation)

HAZARDS SYMBOL :



SIGNAL WORD : Warning

HAZARD STATEMENTS :

H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation

PRECAUTIONARY STATEMENTS :

P264 Wash hands and eyes thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P261 Avoid breathing dust/fume/gas/mist/vapour/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
P332+P313 If skin irritation occurs: Get medical attention.  
P362+P364 Take off immediately all contaminated clothing and wash it before reuse.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical attention.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER or doctor if you feel unwell.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with all applicable regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : TENAX GR  
 SYNONYMS : - - -  
 CHEMICAL FOMULA : Mixture

CHEMICAL IDENTITY	CONTENT	CHEMICAL FOMULA	CAS No.	TSCA INVENTRY	EINECS No.	EC INDEX No.
Poly(2,6-diphenyl 1,4-phenyleneoxide)	70 - 80 %	[(C6H6)2C6H2O-]n	24938-68-9	Not listed	Not established	Not established
Graphite carbon	20 - 30 %	C	7440-44-0	Listed	231-153-3	Not established

4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.

SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

INGESTION : Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Carbon dioxide, dry chemical powder, foam, water

FIRE & EXPLOSION HAZARDS : Toxic, irritating, dust or smoke may be emitted.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS : Fireman should wear appropriate protective equipment(full bunker gear) and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS : Remove ignition sources and ventilate the area.  
 In case of insufficient ventilation, wear suitable respiratory equipment.  
 Avoid raising dust and avoid contact with skin and eyes.

ENVIROMENTAL PRECATIONS : Prevent entering dusts to environment.

METHODS FOR CLEANING UP : Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

7. HANDLING AND STORAGE

HANDLING : Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.  
 After using this product, dispose of contents/container in accordance with all applicable regulations and appropriate ways.

STORAGE : Store away from sunlight in well-ventilated dry place.

INCOMOPATIBLE PRODUCTS : Oxidizers and acids

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

ENGINEERING MEASURES	: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
VENTILATION	: Local Exhaust ; Necessary, Mechanical(General) ; Recommended
PERSONAL PROTECTION	
RESPIRATORY PROTECTION	: Use respirators approved under appropriate government standards and follow all regulations.
HAND PROTECTION	: Protective gloves
EYE PROTECTION	: Safety glasses(goggles)
SKIN PROTECTION	: Protective clothing
CONTROL PARAMETERS	
ACGIH	: Not established
OSHA PEL	: Not established
NIOSH REL	: Not established

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	: Black (dark gray to black)
SHAPE	: Solid (powder)
ODOR	: Odorless
pH	: No data available
BOILING POINT	: No data available
MELTING POINT	: No data available
FLASH POINT	: No data available
FLAMMABILITY	: No data available
AUTOIGNITION TEMPERATURE	: No data available
VAPOR PRESSURE	: No data available
VAPOR DENSITY	: No data available
DENSITY	: 0.4 g/cm <sup>3</sup>
SOLUBILITY IN	
Water	: Insoluble
Organic solvent	: Insoluble
PARTITION COEFFICIENT: n-octanol/water	: No data available
DECOMPOSITION TEMPERATURE	: No data available

**10. STABILITY AND REACTIVITY**

REACTIVITY	: Stable under recommended storage conditions.
CHEMICAL STABILITY	: Stable under recommended storage conditions.
CONDITION TO AVOID	: Moisture, sun light, high temperature, spark, contact with incompatibles
INCOMPATIBLE MATERIALS	: Oxidizers and strong acids
HAZARDOUS DECOMPOSITION PRODUCTS	: CO, CO <sub>2</sub> , Cyanides

**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY	: Shall not be classified as acutely toxic.
SKIN CORROSION/IRRITATION	: Causes skin irritation.
EYE DAMAGE/EYE IRRITATION	: Causes serious eye irritation.
GERM CELL MUTAGENICITY	: Shall not be classified as germ cell mutagenic.
CARCINOGENICITY	: Shall not be classified as carcinogenic.
REPRODUCTIVE TOXICITY	: Shall not be classified as reproductive toxicant.
SPECIFIC TARGET ORGAN TOXICITY	: May cause respiratory irritation.
ASPIRATION TOXICITY	: Shall not be classified as presenting an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**

ECOTOXICITY	:	Shall not be classified as hazardous to the aquatic environment.
BIODEGRADABILITY	:	No data available
BIOACCUMULATION POTENTIAL	:	No data available
MOBILITY IN SOIL	:	No data available
OTHER ADVERSE EFFECTS	:	Not listed in Montreal Protocol list.

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**13. DISPOSAL INFORMATION**

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

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**14. TRANSPORT INFORMATION**

IATA	:	Not dangerous goods
ADR/RID	:	Not dangerous goods
DOT	:	Not dangerous goods
MARINE POLLUTANT	:	Not classified

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**15. REGULATORY INFORMATION**

US REGULATIONS	:	Labeling according to US Directives; See section 2
EU REGULATIONS	:	Labeling according to EC Directives; See section 2

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**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.